

AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

Listing of the Claims

1. (Original) A method of producing biogas by anaerobic digestion of organic matter, comprising:

drying organic matter to a dry solids content of at least 50% by weight TS and subsequently pelletising the same,

mixing the pelletised organic matter with a liquid to form a slurry, contacting the slurry with biogas-producing bacteria for digestion under anaerobic conditions in a reactor, and digesting the slurry while producing biogas.

2. (Original) A method as claimed in claim 1, in which the organic matter is dried to a dry solids content of at least 70% by weight TS.

3. (Original) A method as claimed in claim 1, in which the dried and pelletised matter is ground before being mixed with said liquid to form the slurry.

4. (Original) A method as claimed in claim 1, in which the organic matter is ground in such a manner that at least 80% by weight of the matter obtains a particle size of 0.5-3 mm.

5. (Original) A method as claimed in claim 1, in which organic matter of a type other than the first-mentioned organic matter is also digested in the reactor, at least 10% by weight of the total dry solids introduced into the reactor originating from the dried and pelletised organic matter.
6. (Original) A method as claimed in claim 1, in which the liquid with which the organic matter is mixed is essentially pure water.
7. (Original) A method as claimed in claim 1, in which the liquid with which the organic matter is mixed at least partly is digested sludge which is removed from the reactor.
8. (Original) A method as claimed in claim 1, in which the pelletised organic matter is mixed in a premixing tank with a liquid to form said slurry with a dry solids content of 15-45% by weight TS, and this slurry is then introduced into the reactor to be digested at a dry solids content of 5-10% by weight TS.
9. (Original) A method as claimed in claim 1, in which the dried and pelletised organic matter is dried green matter, such as dried agricultural products.
10. (Original) A method as claimed in claim 1, in which the organic matter is ground before being pelletised.

11. (Currently Amended) A device for producing biogas by anaerobic digestion of organic matter, said device comprising a sealable, essentially gas-tight reactor having an inlet for organic matter and outlets for produced biogas and formed digested sludge, wherein the device comprises a premixing tank for mixing organic matter dried to a dry solids content of at least 50% by weight TS and pelletised, with a liquid to a slurry, and a feed pipe for feeding the slurry to the reactor in which the slurry is contacted with biogas-producing bacteria.

12. (Original) A device as claimed in claim 11, in which a mill is arranged for grinding the dried and pelletised organic matter before being introduced into the premixing tank.

13. (Original) A device as claimed in claim 12, in which the mill is adapted to grind the dried and pelletised organic matter so that at least 80% by weight of the organic matter obtains a particle size of 0.5 - 3 mm.

14. (Original) A device as claimed in claim 11, in which a supply pipe is arranged for feeding digested sludge from the reactor to the premixing tank.